BOOKWISE (An android app for exchanging and selling textbooks) Use Case for Credit opportunity: **Cancelling a Reservation**

Project Summary:

An Android App where students can post their textbooks for sale; users (students) would be able to search for a book, buy it or exchange it for a book that the other user (seller) requires. Books will categorized for different subjects and will have information of condition, edition, picture of cover page and location. All data will stored in a database.

Use Case List

Use Case ID	Primary Actor	Use Cases
UC-1.1.1	General User	Register
UC-1.1.2	General User	Sign In
UC-1.1.3	General User	Logout
UC-1.1.4	General User	Provide Valid E-mail Address
UC-1.1.5	General User	Provide Valid Password
UC-1.1.6	General User	Provide Contact Information
UC-1.2.1	Buyer	Search For Books
UC-1.2.2	Buyer	Reserve Books
UC-1.2.3	Buyer	Cancel Reservation
UC-1.3.1	Seller	Posting Books
UC-1.3.2	Seller	Reject Reservation
UC-1.3.3	Seller	Delete Posting

Use cases

Use Case ID:	UC-1.1.1					
Use Case Name:	Regi	Register				
Created By:	Alim	ulla Shaik	Last Updated By:	Alimulla Shaik		
Date Created:	Nov	9, 2015	Last Revision Date:	Nov 9, 2015		
Actors: General User (Any			User)			

Description:	This use case allow a user to register for a new account			
Frequency of Use:	Once per User			
Preconditions:	User does not have an account			
Postconditions:	User has an account			
Normal Flow:	 User visit the register page User provide valid @colorado.edu E-mail address User create valid password (at least 8 digits) Provide contact information (Mandatory/optional) User click on register button 			
Exceptions:	 E-mail address is invalid Password is invalid Mandatory contact information not provided Account Already exist 			
Includes:	Provide Valid Email Address Create Valid Password Provide Contact Information			
Special Requirements:	None			
Assumptions:	User has internet access			
Notes and Issues:	None			

Use Case ID:	UC	UC-1.1.2				
Use Case Name:	Sig	n In				
Created By:	Alin	nulla Shaik	Last Updated By:	Alimulla Shaik		
Date Created:	Nov	/ 9, 2015	Last Revision Date:	Nov 9, 2015		
Acto	rs:	General User (Any l	Jser)			
Descripti	on:	This use case allow a user to sign in with his/her account				
Frequency of U	se:	Every time switch account or sign in to a new device				
Preconditio	Preconditions:		User was logged out			
Postconditio	ns:	User is signed in				
2. 3.		User provid User provid	e sign in page e valid @ <u>colorado.edu</u> E e valid password n sign in button	E-mail address		

Exceptions:	E-mail address is invalid Password is invalid
Includes:	Provide Valid E-mail Address Provide Valid Password
Special Requirements:	None
Assumptions:	User has internet access
Notes and Issues:	None

Use Case ID:	UC-1	UC-1.1.3					
Use Case Name:	Log	out					
Created By:	Alim	ılla Shaik		Last Updated By:	Alimulla Shaik		
Date Created:	Nov	9, 2015		Last Revision Date:	Nov 9, 2015		
Act	tors:	General User	(Any Us	ser)			
Descrip	tion:	This use case	allow a	user to log out his/her	account		
Frequency of	Use:	Every time us	er wants	s to log out			
Preconditi	ons:	User was signed in					
Postconditi	ons:	User is logged out					
Normal F	low:	User click on log out button					
Excepti	ons:	None					
Inclu	des:	None					
Spo Requireme							
Assumptions: User has internet acc			rnet acc	ess			
Notes and Iss	ues:	None					

Use Case ID:	UC-1.1.4					
Use Case Name:	Prov	Provide Valid E-mail Address				
Created By:	Alim	ulla Shaik	Last Updated By:	Alimulla Shaik		
Date Created:	Nov	9, 2015	Last Revision Date:	Nov 9, 2015		
Actors:		General User (Any User)				

Descript	ion:	This use case allow a user to provide a valid E-mail address				
Frequency of Use:		Every time user wants to register or sign in				
Precondition	ons:	Email address not pro	vided			
Postcondition	ons:	Email address provide	d			
Normal Fi	low:	User click on l User type in E	E-mail address input fie -mail address	ld		
Exception	ons:	None				
Includ	des:	None				
Spe Requireme	ecial ents:	None				
Assumptio	ons:	User has internet acce	ess			
Notes and Issu	ues:	None				
Use Case ID:	UC-	1.1.5				
Use Case Name:	Prov	ide Valid Password				
Created By:	Alim	ulla Shaik	Last Updated By:	Alimulla Shaik		
Date Created:	Nov	9, 2015 Last Revision Date: Nov 9, 2015		Nov 9, 2015		
Act	ors:	General User (Any User)				
Descript	ion:	This use case allow a user to provide a valid password				
Frequency of I	Use:	Every time user wants to sign in				
Precondition	ons:	Password not provided				
Postcondition	ons:	Password provided				
Normal Flow:		 User click on the password input field User type in the password 				
Exceptions:		None				
Includes:		None				
Special Requirements:		None				
Assumptions:		User has internet access				
Notes and Issu	ues:	None				
Use Case ID:	UC-	1.1.6				

Use Case Name:	Prov	Provide Contact Information				
Created By:	Alimulla Shaik			Last Updated By:	Alimulla Shaik	
Date Created:	Nov	9, 2015		Last Revision Date:	Nov 9, 2015	
Act	ors:	Genera	I User (Any Us	er)		
Descript	ion:	This us	e case allow a	user to provide his/her	contact information	
Frequency of	Use:	Every ti	ime user wants	to register		
Precondition	ons:	Contact information (mandatory/optional) not provided				
Postcondition	ons:	Contact information (mandatory/optional) provided				
Normal Flow:		User click on the contact information input field User type in the contact information				
Exception	ons:	None				
Inclu	des:	None				
Special None Requirements:						
Assumptions: User has internet acce		ess				
Notes and Iss	ues:	None				

Use Case ID:	UC-	UC-1.2.1					
Use Case Name:	Sea	rch Books					
Created By:	Alim	ulla Shaik	Last Updated By:	Alimulla Shaik			
Date Created:	Nov	9, 2015	Last Revision Date:	Nov 9, 2015			
Act	ors:	Buyer					
Descript	ion:	This use case allow a Buyer to search for book he/she wants to buy					
Frequency of I	Jse:	Every time Buyer wants to buy a book					
Precondition	ons:	Buyer was on search page					
Postcondition	ons:	Buyer has a list of results					
Normal Flow:		 Buyer visit the search page Buyer provide title/author/edition Buyer select sort with distance/price option Buyer click on search 					
Exception	ons:	None					

Extends:	Sort Results With Distance Sort Results With Price
Special Requirements:	
Assumptions:	User has internet access
Notes and Issues:	None

Use Case ID:	UC-	UC-1.2.2				
Use Case Name:	Res	Reserve Books				
Created By:	Alim	ulla Shaik	Last Updated By:	Alimulla Shaik		
Date Created:	Nov	9, 2015	Last Revision Date:	Nov 9, 2015		
Acto	ors:	Buyer				
Descript	ion:	This use case allow a B	uyer to reserve a book	he/she wants to buy		
Frequency of l	Jse:	Every time Buyer found	a book he/she wants to	b buy		
Preconditions:		Buyer searched book and has a list of results, but does not have reservation on the book				
Postcondition	ns:	Buyer has reservation/on the wait list of the book				
Normal FI	ow:	Buyer click on the reserve button				
Exception	ns:	None				
Includ	des:	None				
Special Requirements:						
Assumptio	ns:	User has internet acces	s			
Notes and Issu	ıes:	None				

Use Case ID:	UC-	JC-1.2.3			
Use Case Name:	Can	Cancel Reservation			
Created By:	Alimulla Shaik		Last Updated By:	Alimulla Shaik	
Date Created:	Nov 9, 2015		Last Revision Date:	Nov 9, 2015	
Actors:		Buyer			
Description:		This use case allow a Buyer to cancel a reservation he/she made			

	before		
Frequency of Use:	Every time Buyer decide not to buy a book		
Preconditions:	Buyer has a reservation on a book		
Postconditions:	Buyer does not have a reservation on the book		
Normal Flow:	Buyer visit the reserved book page Buyer click on the cancel reservation button		
Exceptions:	None		
Includes:	None		
Special Requirements:	None		
Assumptions:	User has internet access		
Notes and Issues:	None		

Use Case ID:	UC-	UC-1.3.1				
Use Case Name:	Pos	Post Book				
Created By:	Alim	nulla Sha	aik	Last Updated By:	Alimulla Shaik	
Date Created:	Nov 9, 2015			Last Revision Date:	Nov 9, 2015	
Actors:		Seller				
Description:		This use case allow a seller to post a book he/she wants to sell				
Frequency of Use:		Every time a Seller has a book to sell				
Preconditions:		Seller has not posted the book for sale				
Postconditions:		Seller has posted the book for sale				
Normal Flow:		 Seller visit the book posting page Seller provide book title/author/edition Seller click on post button 				
Exception	ns:	None				
Includes: No		None				
Spe Requireme		None				
Assumption	ns:	ns: User has internet access				

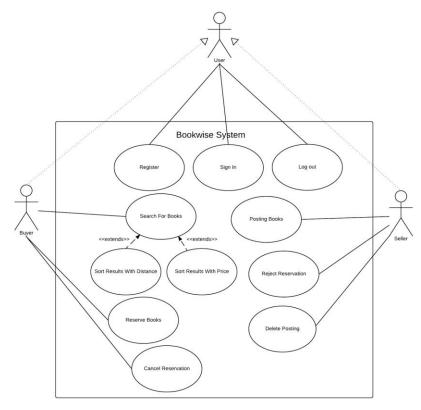
Notes and Issues: None

Use Case ID:	UC-1.3.2				
Use Case Name:	Reject Reservation				
Created By:	Alimulla Shaik			Last Updated By:	Alimulla Shaik
Date Created:	Nov 9, 2015			Last Revision Date:	Nov 9, 2015
Act	Actors: Seller				
Description:		This use case allow a seller to reject a reservation a buyer made			
Frequency of Use:		Every time a seller decide not to sell the book to a buyer who made a reservation			
Preconditions:		The buyer has a reservation on the book			
Postconditions:		The buyer no longer has a reservation on the book			
Normal Flow:		Seller visit the posted book page Seller click on reject reservation button			
Excepti	ons:	None			
Inclu	des:	None			
Spo Requireme	ecial ents:	None			
Assumpti	ons:	User has internet access			
Notes and Iss	ues:	es: None			

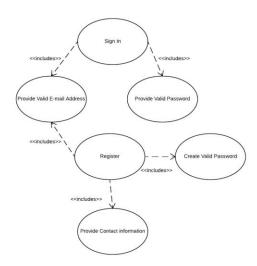
Use Case ID:	UC-	UC-1.3.3				
Use Case Name:	Dele	Delete Posting				
Created By:	Alimulla Shaik		Last Updated By:	Alimulla Shaik		
Date Created:	Nov 9, 2015		Last Revision Date:	Nov 9, 2015		
Actors:		Seller				
Description:		This use case allow a seller to delete a book he/she posted				
Frequency of Use:		Every time a seller decide not to sell the book				
Preconditions:		The book was posted for sale				
Postconditions:		The book is no longer posted for sale				

Normal Flow:	Seller visit the posted book page Seller click on delete posting button		
Exceptions:	None		
Includes:	None		
Special Requirements:	None		
Assumptions:	User has internet access		
Notes and Issues:	None		

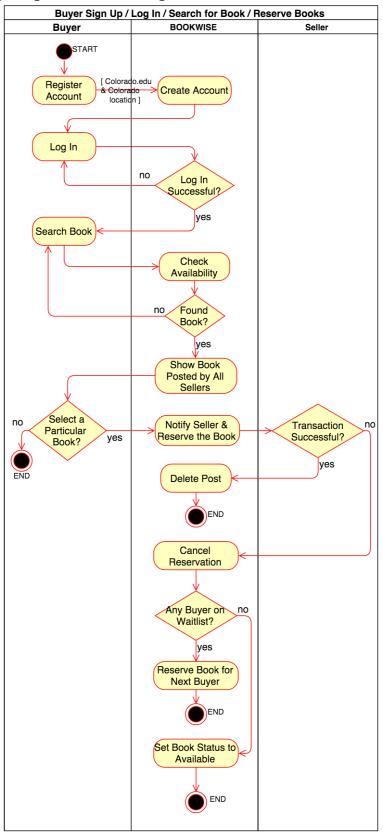
Use case diagram for cancelling reservation:



Sub-Diagram



Activity Diagram for Canceling Reservation:

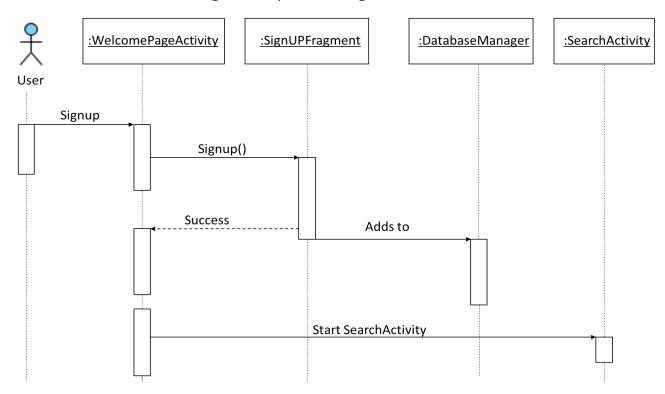


User Interactions:

Cancelling reservation use case includes the interactions of sign in, search book, reserve books and cancelling reservation. And the same is described below.

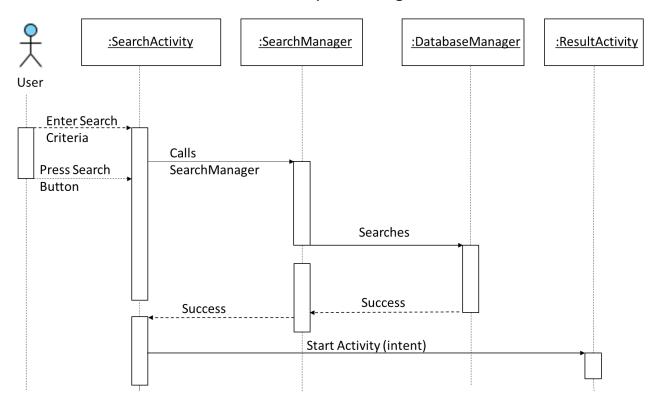
Sign In Sequence Diagram:

Sign In Sequence Diagram



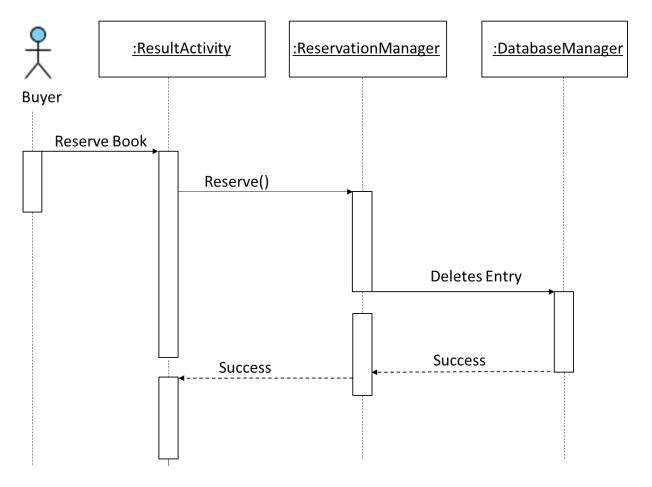
Search book sequence diagram:

Search Book Sequence Diagram



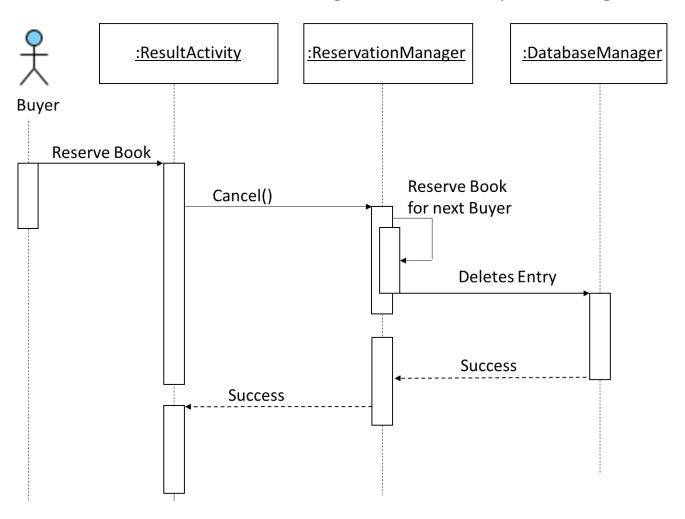
Reserve books sequence diagram:

Reserve Book Sequence Diagram



Cancelling Reservation Sequence Diagram:

Cancelling Reservation Sequence Diagram



Class Diagram: Andriod.app :: Activity #onCreate(state : Bundle) : void #onResume(): void #onPause(): void +findViewByld(id:int): View +getIntent(): Intent Search Activity Welcome Page Activity **Result Activity** -fragmentSignUp: RelativeLayout -searchView : SearchView - welcome : RelativeLayout -serchLayout : RelativeLayout -resultLayout : RelativeLayout -bookImage : ImageView -list : ListView -resultList : ListView -username : EditText -search : Button -alert : Alert Dialog -password : Edit ext Starts -title: String -alertOk : Button -signUp : Button -addEntry : Button -alertCancel : Button -login: Button -deleteEntry: Button -login_name : String +onClick(v : View) : void +showAlertDialog(): void -login_pass : String +openAddEntryPage(): void +onClick(DialogInterface: View): void deleteEntry: void +onItemClick(): void +signUp(): void openSearchResultPage: void +OpenSearchActivity(): void Reservation Manager Search Manager Database Manager -title : String -db: DatabaseManager -title : String <<Searches>> -author : String -login URL: String -bookadd_URL: String +Reserve(title :String) : boolean -ISBN : String -booksearch_URL : String +Cancel(title :String) : boolean -login_name : String -login_pass : String -httpurlconnection: HTTPURLConnection -db: DatabaseManager +DatabaseManager(ctx : Context) +SearchManager(ctx : Context) <<adds to>> **Deletes Entry** Starts SignUp Fragment SignUpFragment -email : EditText -password : EditText -submit: Button -db: DatabaseManager +onResume(): void +onPause(): void +onClick(v: View): void +userAddEntry(view: View): Void